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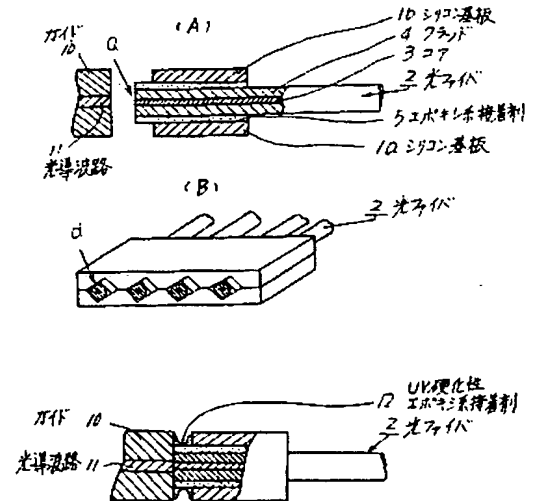
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APPLICANT : FUJITSU LTD;

INVENTOR : MEKATA NAOYUKI;

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TITLE : OPTICAL FIBER CONNECTOR



ABSTRACT : PURPOSE: To exactly connect optical fibers without transmission loss and to facilitate the operation for connecting the fibers by etching and removing the polished end face of base plates sandwiching the optical fibers to a array shape to project the fibers and joining these projected fibers and the light guides of a guide.

CONSTITUTION: The optical fibers 2 are inserted into the plural square holes formed by the V-grooves of the silicon base plates 1a, 1b and are fixed by an adhesive agent 5. The end faces thereof are polished plane. The polished side end face of the base plate 1 is immersed in an etching soln. to etch and remove only the substrate and to project only the optical fibers. The end faces of the light guides 11 of the guide 10 and the end faces (a) of the optical fibers are joined in tight contact with each other. These end faces are then fixed and integrated by the UV curing epoxy adhesive agent 12. Since both end faces can be visually observed by a microscope, etc., at this time, the end faces are exactly joined without a positional deviation. Since both the end faces are polished, the generation of the transmission loss is obviated and the operation for connecting the end faces is facilitated.

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